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PATENT
Docket No. 312762002600

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Tami M Procopio
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Mingxu XU and Qinghong HAN

Serial No.: 09/759,990

Filing Date: January 12, 2001

For: HIGH EXPRESSION AND PRODUCTION OF
HIGH SPECIFIC ACTIVITY RECOMBINANT
S-ADENOSYL HOMOCYSTEINASE (SAHH)
AND IMPROVED ASSAYS FOR S-
ADENOSYLMETHIONINE (SAM)

Examiner: To be Assigned

Group Art Unit: 1645

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AMENDMENT

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

This is in response to the Notice of incomplete reply dated September 6, 2001.

Please enter the following Sequence Listing, amendments and remarks.

In the Sequence Listing:

Please insert the attached paper copy of the Sequence Listing as new pages 1-2 in the above-captioned application. A computer-readable copy (CFR copy) of the Sequence Listing accompanies this response.

Amendments

In the Specification:

Please replace the paragraph beginning at page 11, line 12, with the following rewritten paragraph:

-- The genomic sequence encoding SAHH in *T. vaginalis* (Bagnara *et al.*, 1996) was amplified by PCR using oligonucleotide primers containing engineered restriction enzyme sites for *BamHI* and *PstI* in the upstream (sense) and downstream (antisense) primers, respectively (restriction sites are underlined in both cases): upstream primer, 5'TTTGATCCGCTTCAAATCACCTGCTGGTGC 3' (SEQ ID NO:2); downstream primer, 3' CTGCTATCGAGGGGACGTCTTT 5' (SEQ ID NO:3). The recombinant expression vector pQE-30 was transformed into the *Escherichia coli* host strain M15[pREP4] (Villarejo and Zabin, 1974) (QIAGEN).--

Please replace the paragraph beginning at page 15, line 18, with the following rewritten paragraph:

-- To construct the expression vector, the SAHH gene was modified by PCR. The 5' primer is CATCATCATCATCACGCTTCAAATCACCTACTGG (SEQ ID NO:4)

6 x His•Tag

and the 3' primer is ATGCATGGATCTTAACGGTAAGCATC (SEQ ID NO:5).--

REMARKS

The Specification has been amended to include sequence identifications numbers which were omitted at the time of filing.

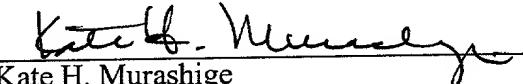
Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "Version with markings to show changes made.".

The undersigned hereby states that the computer readable form copy (CRF copy) of the Sequence Listing and the paper copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.825(a) and (b), respectively, are the same and contain no new matter. Accordingly, entry of the Sequence Listing into the above-captioned case is respectfully requested.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 312762002600. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: October 23, 2001

By: 
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

On page 11, line 16, after "TTT-3" insert --(SEQ ID NO:2)--;

On page 11, line 17, after "TTT-5" insert --(SEQ ID NO:3)--;

On page 15, line 19, after "TGG" insert --(SEQ ID NO:4)--;

On page 15, line 21, after "ATC" insert --(SEQ ID NO:5)--.